

## **JPL'S APPROACH IN UTILIZING THE GLOBAL GPS GROUND NETWORK TO SUPPORT LOW-EARTH ORBITING MISSIONS**

**A. W. Moore, D. A. Stowers, M. R. Marcin, R. Khachikyan, I. L. Harris,  
and J. F. Zumberge**

JPL plans to upgrade a subset of the NASA global GPS ground network in order to support upcoming low-earth orbiter missions. The required data rates and latencies will be attained by placing a highly capable, yet economical computer at each remote station. The "Smart Sites" software under continuing development for these remote computers will allow on-the-fly data validation, active notification of error conditions, and other sophisticated new modes of reliable, automated site operations. New options in satellite communications for LEO network stations in remote areas are also under evaluation.

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A. W. Moore  
JPL 238-600  
4800 Oak Grove Drive  
Pasadena, CA 91109-8099  
USA

Angelyn.W.Moore@jpl.nasa.gov